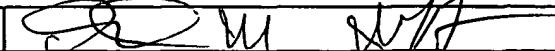


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Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Continuation of 09/694,836
Sheet	1	of	20	Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	UTSB 493 CIP CON (5)

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
an		3,960,150		Hussain, et al.	06-01-1976	
		3,981,303		Higuchi, et al.	09-21-1976	
		3,986,510		Higuchi, et al.	10-19-1976	
		3,993,071		Higuchi, et al.	11-23-1976	
		4,076,800		Marsh, et al.	02-28-1978	
		4,193,845		Kaetsu, et al.	03-18-1980	
		4,194,066		Kaetsu, et al.	03-18-1980	
		4,195,129		Fukui, et al.	03-25-1980	
		4,226,938		Yoshida, et al.	10-07-1980	
		4,272,617		Kaetsu, et al.	06-09-1981	
		4,283,325		Berthet, et al.	08-11-1981	
		4,295,762		Slovinsky	10-20-1981	
		4,298,002		Ronen, et al.	11-03-1981	
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		Office ³	Number ⁴	Kind Code ⁵ (if known)			
an		PCT	WO 91/10425		Brown University Research Foundation	07-25-1991	
an		PCT	WO 93/09176		Clover Consolidated, Limited	05-13-1993	
an		PCT	WO 93/17669		Board of Regents, The University of Texas System	09-16-1993	
an		PCT	WO 93/21266		Clover Consolidated, Limited	10-28-1993	
an		EP	0 195 304		The Dow Chemical Company	09-24-1986	
an		JP	1-324743		General Director National Circulatory Disease Hospital	08-12-1991	

Examiner Signature		Date Considered	1/23/04
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		4,359,483		Kaetsu, et al.	11-16-1982	
		4,376,059		Davis, et al.	03-08-1983	
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		4,511,478		Nowinski, et al.	04-16-1985	
		4,526,938		Churchill, et al.	07-02-1985	
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<i>an</i>		4,647,536		Mosbach, et al.	03-03-1987	

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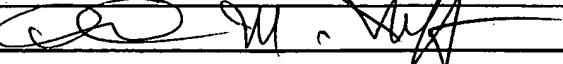
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DM	4,652,443	Yoshida, et al.		03-24-1987		
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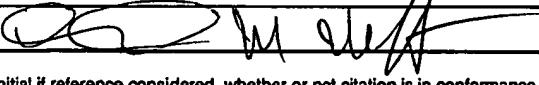
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DRW	4,916,193	Tang, et al.		04-10-1990		
	4,925,677	Feijen		05-15-1990		
	4,931,279	Bawa, et al.		06-05-1990		
	4,938,763	Dunn, et al.		07-03-1990		
	4,942,035	Churchill, et al.		07-17-1990		
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	4,957,744	della Valle, et al.		09-18-1990		
	5,037,656	Pitt, et al.		08-06-1991		
	5,149,416	Osterhoudt, et al.		09-22-1992		
	5,153,002	McMullen		10-06-1992		
	5,160,745	DeLuca, et al.		11-03-1992		
	5,183,690	Carr, et al.		02-02-1993		
	5,185,408	Tang, et al.		02-09-1993		
	5,219,564	Zalipsky, et al.		06-15-1993		
	5,268,182	Brinker, et al.		12-07-1993		

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
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		Examiner Name	
		Attorney Docket Number	UTSB 493 CIP CON (5)
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U.S. PATENT DOCUMENTS

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		Number			
<i>Am</i>	5,271,961		Mathilowitz, et al.	12-21-1993	
	5,278,201		Dunn, et al.	01-11-1994	
	5,278,202		Dunn, et al.	01-11-1994	
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	5,529,914		Hubbell et al.	06-25-1996	
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	5,834,274		Hubbell et al.	11-10-1998	
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Sheet	6	of	20	Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		ALTMAN, et al., "Long-term plasma glucose normalization in experimental diabetic rats with microencapsulated implants of benign human insulinomas," <i>Diabetes</i> 35:825-33 (1986).	
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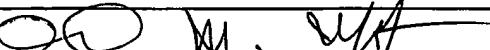
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dm		DARQUY, et al., "Immunosolation of pancreatic cells by microencapsulation – an <i>in vitro</i> study," <i>Diabetologia</i> 28:776-80 (1985).	
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dm		DUNN, et al., "Synergistic effect of intraperitoneally administered calcium channel blockade and recombinant tissueplasminogen activator to prevent adhesion formation in an animal model," <i>Am. J. Obstet. and Gynecol.</i> 164(5):1327-30 (1991).	

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		1/23/00

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<i>an</i>		DUPUY, et al., "In Situ Polymerization of a Microencapsulating Medium Round Living Cells," <i>J. of Biomedical Materials Res.</i> 22:1061-70 (1988).	
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<i>an</i>		FUKUI, et al., "Entrapment of biocatalysts with photo-cross-linkable resin prepolymers and urethane resin prepolymers," <i>Methods in Enzymology</i> 135:230-53 (1987).	

Examiner's Signature	<i>DR. M. Shaffer</i>	Date Considered	<i>1/23/09</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation of 09/694,836
Sheet	9	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>JK</i>		FUKUI, et al., "Several novel methods for immobilization of enzymes microbial cells and organelles," <i>Biochimie</i> 62:381-86 (1980).	
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		GABBAY, et al., "New outlook on pericardial substitution after open heart operations," <i>Ann. Thorac. Surg.</i> 48:803-12 (1989).	
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		GIN, et al., "Agarose encapsulation of islets of langerhans: Reduced toxicity <i>in vitro</i> ," <i>J. Microencapsulation</i> 4:239-42 (1987).	
		GOLANDER, et al., "Preparation and protein adsorption properties of photopolymerized hydrophilic films containing N-vinylpyrrolidone (NVP), acrylic acid (AA) or ethyleneoxide (EO) units as studied by ESCA," <i>Colloids and Surfaces</i> 21:149-65 (1988).	
		GOLDBERG, et al., "An evaluation of the gore-tex surgical membrane for the prevention of postoperative peritoneal adhesion," <i>Obstetrics and Gynecology</i> 70(6):846-48 (1987).	
<i>JK</i>		GOMBOTZ, et al., "Immobilization of poly(ethylene oxide) on poly(ethylene terephthalate) using a plasma polymerization process," <i>J. of Applied Polymer Science</i> 37:91-107 (1989).	

Examiner's Signature	<i>JK</i>	Date Considered	<i>11/23/06</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation of 09/694,836
Sheet	10	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>DR</i>		GOOSEN, et al., "Optimization of microencapsulation parameters: Semipermeable microcapsules as a bioartificial pancreas," <i>Biotechnology and Bioengineering</i> 27:146-50 (1985).
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		HOLTZ, "Prevention and management of peritoneal adhesions," <i>Fertility and Sterility</i> 42(4):497-07 (1984).
		HORBETT, "Mass action effects on competitive adsorption of fibrinogen from hemoglobin solutions and from plasma," <i>Rhomb. Haemostas.</i> (Stuttgart), 51(2):174-81 (1984).
<i>DR</i>		HU, et al., "Effect of soft segment in degradation kinetics in polyethylene glycol/poly(L-lactide) block copolymers," <i>Polymer Bulletin</i> 30:669-76 (1993).

Examiner's Signature	<i>DR M. J. H.</i>	Date Considered	<i>1/29/06</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Applicati n Number	C ntinuati n of 09/694,836
Sheet	11	of	20	Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	UTSB 493 CIP CON (5)

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>dm</i>		HUFFMAN, et al., "Effect of carboxyl end groups on hydrolysis of polyglycolic acid," <i>J. Polymer Science, Polymer Chemistry Edition</i> 23:1939-1951 (1985).	
		HUNT, et al., "Synthesis and evaluation of a prototypal artificial red cell," <i>Science</i> 6:1165-68 (1985).	
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		KAREL, et al., "The immobilization of whole cells: engineering principals," <i>Chemical Engineering Science</i> 40(8):1321-54 (1985).	
<i>dm</i>		KARU, "Yearly review - Effects of visible radiation on cultured cells," <i>Photochemistry and Photobiology</i> 52(6): 1089-98 (1990).	

Examiner's Signature	<i>dm</i>	Date Considered	<i>7/23/04</i>
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Substitute for form 1449A/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>		Application Number	Continuation 109/694,836
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet	12	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		KENLEY, et al., "Poly(lactide-co-glycolide) decomposition kinetics <i>in vivo</i> and <i>in vitro</i> ," <i>Macromolecules</i> 20:2398-2403 (1987).
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		KUMAKURA, et al., "Immobilization of microbial cells in membrane form by radiation-induced cast-polymerization," <i>Die Angewandte Makromol. Chem.</i> 115:75-86 (1986).
<i>an</i>		LACY, et al., "Maintenance of normoglycemia in diabetic mice by subcutaneous xenografts of encapsulated islets," <i>Science</i> 254:1782-94 (1991).

Examiner's Signature	<i>DR. M. W.</i>	Date Considered
		<i>1/31/06</i>

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Continuation of 09/694,836
Sheet	13	of	20	Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		LAMBERTI, et al., "Microencapsulation of mammalian cells in polyacrylates," <i>Applied Biochemistry and Biotechnology</i> 10:101-05 (1984).
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		LEE, et al., "Protein-resistant surfaces prepared by PEO-containing block copolymer surfactants," <i>J. Biomedical Materials Research</i> 23:351-68 (1989).
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<i>an</i>		MAYER, et al., "Effect of viscous macromolecules on peritoneal plasminogen activator activity: A potential mechanism for their ability to reduce postoperative adhesion formation," <i>Am. J. Obstet. L Gynecol.</i> 159(4):957-63 (1988).

Examiner's Signature	<i>an</i>	Date Considered	<i>1/23/00</i>
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		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		McMAHON, et al., "Feasibility of cellular microencapsulation technology for evaluation of anti-human immunodeficiency virus drug <i>in vivo</i> ," <i>J. Nat. Cancer Inst.</i> 82(22):1761-65 (1990).	
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<i>an</i>		NECKERS, et al., "Photopolymerization using derivatives of fluorescein," American Chemical Society, <i>Proceedings of the ACS Division of Polymeric Materials: Science and Engineering</i> , 60:15-16 (1989).	

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Sheet	15	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>DRW</i>		NOJIRI, et al., "In Vivo protein adsorption onto polymers: A transmission electron microscopic study," <i>Trans. Am. Soc. Artif. Intern. Organs</i> 35:357-61 (1989).	
		O'SHEA, et al., "Encapsulation of rat Islets of langerhans prolongs xenograft survival in diabetic mice," <i>Diabetes</i> 35:943-46 (1986).	
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		PAGIDAS, et al., "Effect of ringer's lactate. Interceed (TC7) and gore-tex surgical membrane on postsurgical adhesion formation," <i>Fertility and Sterility</i> 57(1): 199-01 (1992).	
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		PETERSON, "Polyethylene glycol diacrylates as embedding media for electron microscopy," Thirtieth Annual Meeting, Electron Microscopy Society of America and First Pacific Regional Conference on Electron Microscopy, 144-45 (1972).	
<i>DRW</i>		PHILIPS, et al., "Radiation curable water dilutable polyester acrylates," <i>European Polymers Paint Colour J.</i> 183(4322): 38-40 (1993).	

Examiner's Signature	<i>DRW</i>	Date Considered	1/23/06
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Sheet	16	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>DR</i>		PITT, et al., "Aliphatic polyesters. I. The degradation of Poly-caprolactone) <i>in vivo</i> ," <i>J. Applied Polymer Science</i> 26:3779-87 (1981).	
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Examiner's Signature	<i>DR M. WY</i>	Date Considered	<i>1/23/04</i>
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<i>an</i>		SAWHNEY, et al., "Poly(ethylene oxide)-graft-poly(L-lysine) copolymers to enhance the biocompatibility of poly(L-lysine)-alginate microcapsule membranes." <i>Biomaterials</i> 13(12):863-870 (1992).
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<i>an</i>		STEVENSON, et al., "Graft copolymer emulsions of sodium alginate with hydroxyalkyl methacrylates for microencapsulation." <i>Biomaterials</i> 8:449-57 (1987).

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Continuation of 109/694,836
				Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
Sheet	18	of	20	Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		STEVENSON, et al., "Microencapsulation of mammalian cells in a hydroxyethyl methacrylate-methyl methacrylate copolymer: Preliminary development," <i>Biomat. Art. Cells</i> 16:747-69 (1988).	
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(use as many sheets as necessary)		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet	19	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>John</i>		URMAN, et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3):563-67 (1991).	
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<i>John</i>		ZHU, et al., "Preparation characterization and properties of polylactide (PLA)- Poly(ethylene Glycol) (PEG) copolymers: A potential drug carrier," <i>J. Applied Sci.</i> 39:1-9 (1990).	

Examiner's Signature	<i>John W. Steff</i>	Date Considered	1/23/00
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		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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Sheet	20	of	20
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<i>De</i>		ZHU, et al., "Super microcapsules" (SMC), I. Preparation and Characterization of Star Polyethylene Oxide (PEO)-Polylactide (PLA) Copolymers," <i>J. Polymer Sci.: Part A: Polymer Chemistry</i> 27:2151-59 (1989).	

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